



— Y-12 BULLETIN

A Newspaper For Y-12 Employees of Union Carbide Corporation—Nuclear Division

Vol. 23 — No. 31

OAK RIDGE, TENNESSEE

Wednesday, August 20, 1969

Recent Safety Awards For Y-12 Were Made Because Of Individual Efforts

Literally, millions of dollars are spent annually on safety devices to protect people at work, at home and on the highway. There are seat belts, guards, shields, gloves, flashing lights, white line, yellow lines, sirens, signals and a host of others designed to protect people from almost every hazard known . . . and some unknown. These tools of safety, no doubt, contribute greatly to the well-being of millions of Americans each year. But there is one device—the best in the world—that must be utilized if we are to remain safe at home and at work. This device is the individual.

In recent honors heaped upon Y-12 for its safety performance last year, it was emphasized that the individual in the plant was the real recipient of the National Safety Council, Atomic Energy Commission, and Union Carbide Corporation plaques . . . all handsome witnesses of the plant's safety efforts. Last year, Y-12 totaled 11,391,518 man-hours worked, with only two disabling injuries, for a frequency rate of 0.18 . . . the lowest in the plant's history! (1969's frequency rate could be cut even lower than that. Through midnight Sunday, August 17, we have worked 268 days for approximately 8,741,000 man-hours, without a single disabling injury.)

Compare Y-12's frequency rate to industry as a whole. In 1968, a frequency rate of 7.35 was reported to the National Safety Council . . . with a chemical industry rate of 3.74 frequency of accidents per million man-hours. This makes our safety record more than 35 times better than industry as a whole . . . or 20 times better than the chemical industry's safety record.

Yet, it is contended that this is

not good enough. One accident is one too many, the frequently stated philosophy of Y-12, is still the word here.

What then of this device known as the individual? Its value is so great that no price has ever been put on it. Yet, at the same time, as a means to safety, it is free. Let's examine it closely to see what can make visual observations better than any camera, detect sound, sense temperature, and analyze air and liquid samples. The most important function, however, is something no machine has ever been able to do—it can think.

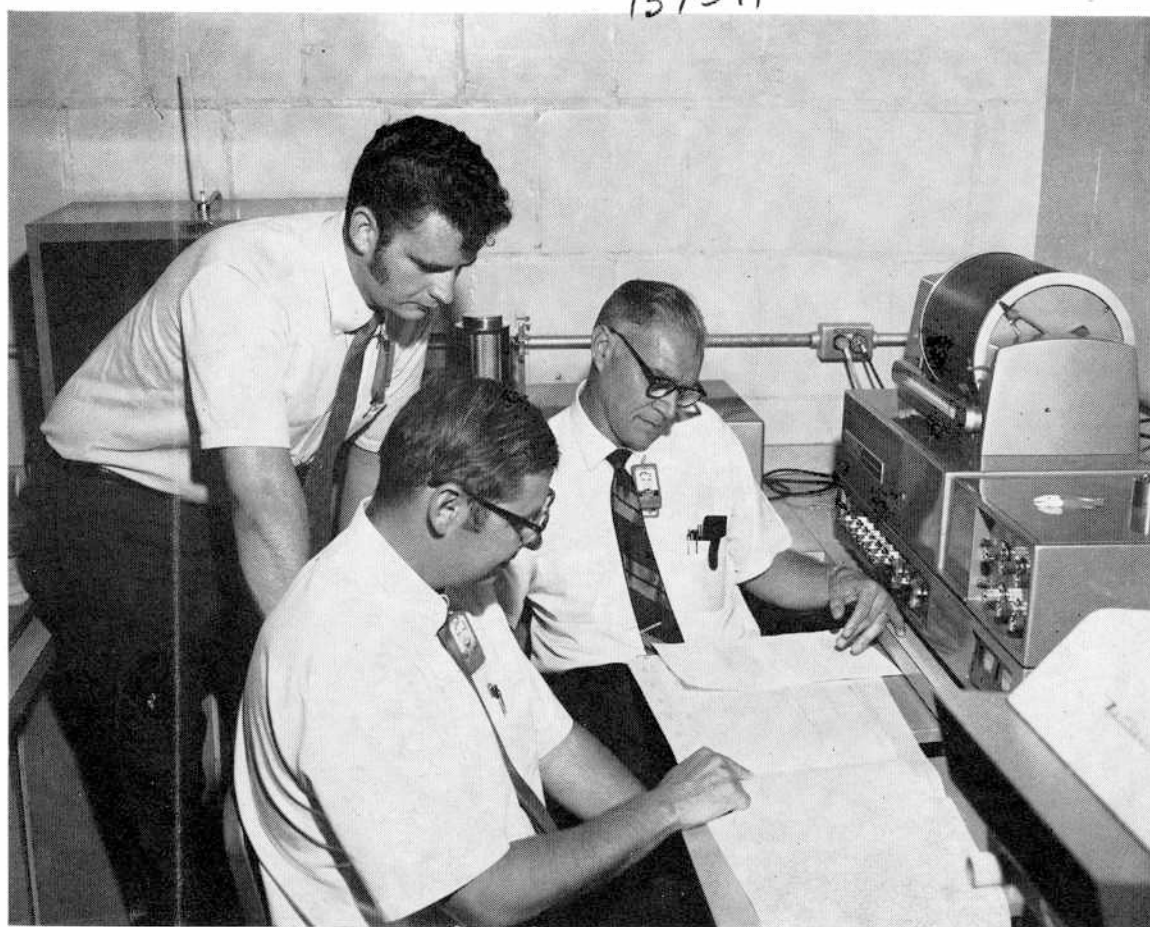
But you, a walking, breathing, and (hopefully) thinking safety device, are no good to yourself or anybody else unless you utilize your God-given capabilities. If used properly, they can protect you from serious injury. If neglected, all the safety devices and rules in the world cannot prevent you from being hurt.

The human body and brain is a marvelous, complicated mechanism and is worthy of the highest respect. Protect it, and most of all—use it, because it is the best safety device in the world.

The Safety Department has mounted the plaques on a handsome sandwich-type display board which will tour the plant. They will be displayed at all of Y-12's portals. Safety says . . . read it plaques . . . and take pride in them . . . after all YOU earned them!

ULTERIOR MOTIVE

Psychiatrists who advise parents to spend more time with their children are sly ones. All they're trying to do is drum up more business!



R. H. LIDDLE, LEFT, and J. M. McIntyre, center, Development Division; along with E. T. Creech, Plant Laboratory, examine analytical data pertaining to the composition of the moonbox wash residue.

Pre-Flight Decontamination Still Goes On For Lunar Boxes For NASA

Although the Apollo 11 flight is history, Y-12 support to the Apollo program continues with the pre-flight decontamination of lunar sample boxes and associated hardware to be used in future moon landing missions.

This rigorous decontamination operation, conducted in a Y-12 super clean room, is performed to remove earth dirt that might interfere with an accurate analysis of lunar geological specimens.

When the cleaning operation is completed, a portion of the final rinse in benzene is forwarded to Y-12's Plant Laboratory for analysis and future reference. Infrared spectroscopy and gas chromatography techniques are used to determine the relative quantities of various chemical compounds contained in the rinse.

The analysis permits scientists performing investigations of the lunar rocks to know which chemical compounds they find in the

rocks are truly from the moon and which were merely residues which originated on earth.

Decontamination operations are directed by J. M. McIntyre and R. H. Liddle, Chemistry Development Department, Development Division. Analytical operations on the moonbox cleaning residue are directed by E. T. Creech and N. J. Williams, Y-12 Plant Laboratory.

Johnson Writes Journal Article

Statistical Services Department's Eric E. Johnson is featured in the August 11 issue of Chemical Engineering.

Johnson authored an article in the Plant Notebook section, entitled "Curve Fitting Easily Done with Hyperbolic Equation."

The three-page treatise is illustrated with graphs, equations and tables.



Johnson

Garber Gives Lunar Talk At Johnson City

Joel W. Garber, Y-12's Physical Testing, will speak at a noon meeting next Tuesday, August 26, at the Johnson City Rotary Club.

The subject of his speech will be the "Apollo Lunar Samples Return Container Program Highlights." Garber played a prominent role in the physical testing of the Apollo moon boxes.

Kumar Is Seminar Speaker This Friday

This week's Physics Division seminar will feature Krishna Kumar, ORNL Neutron Physics Division. His subject will be "The Beta-Gamma-Dependence of Nuclear Collective Hamiltonian."

The seminar is scheduled for Friday, August 22, at 3:15 p.m. at the East Auditorium, ORNL's 4500 building.



EMPLOYEES IN BUILDINGS, GROUNDS, and Maintenance Shops, admire the display of 1968 Safety Awards made to Y-12ers by the National Safety Council, the Atomic Energy Commission, and Union Carbide Corporation. From left are R. W. Pressley, F. D. Bradburn, W. P. Moore, C. H. Crockett, C. F. Keylon, John Blackburn and J. T. Calhoun. The display will be shown at each portal in Y-12. 'It is an individual award made to every employee,' emphasized the Safety Department.

SAFETY SCOREBOARD

The Y-12 Plant Has Operated
268 Days Or
8,741,000 Man-Hours
(Unofficial Estimate)
Through August 17
Without A Disabling Injury
SAFETY AT HOME,
AT WORK, AT PLAY

The Bulletin

Published Weekly For The
Y-12 Employees Of
UNION CARBIDE
CORPORATION



NUCLEAR DIVISION

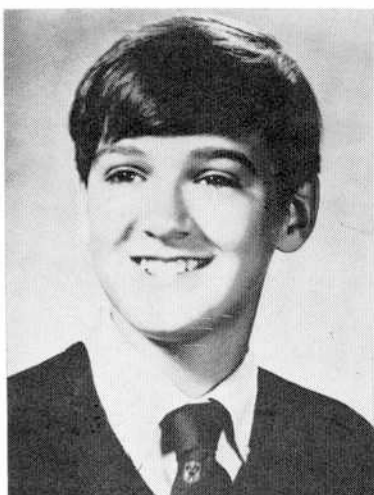
JAMES A. YOUNG Editor

Member
Appalachian
Industrial
Editor's
Association

American Association Industrial Editors

OFFICE
Post Office Box Y
Oak Ridge, Tenn. 37830
Telephone 3-7100

Curnutt Son Will Serve In Congress



Gary Curnutt

Gary Curnutt, son of Mr. and Mrs. Troy Curnutt Jr., 508 Scenic Drive, Clinton, has been appointed by the United States Congress to serve as a page for two weeks while Congress is in session. He will be notified when to report to Washington, D.C. for duty.

Gary is a rising junior at Clinton High School and has served as president of the Elementary Student Council, president of his sophomore class, president of the Elementary Student Council, president of his sophomore class, president of Clinton's Young Republicans and other offices. He received the Good Citizenship Award last year and was invited

Nuclear Devices Ideal For Space

Two ounces of radioactive plutonium heat the 100-pound seismic device Apollo 11 astronauts left on the moon where temperatures drop to as low as 250 degrees below zero.

The seismometer, which will relay information on any motion or moonquakes back to earth, will operate at least a year. A heater is required because few instruments can survive the cold and long 360-hour lunar nights.

The isotopic heater was developed by the Atomic Energy Commission for the National Aeronautics and Space Administration.

The atomic heater is one of several space applications of nuclear energy being developed by the AEC, including: nuclear rocket engines, life support systems, and an atomic generator which will supply power to an unmanned experiment station on the moon.

Dr. Glenn T. Seaborg, AEC chairman and co-discoverer of the manmade element plutonium, says that "to advance beyond the exciting success of Apollo flights will mean sending payloads on manned and unmanned missions to the planets by nuclear rockets." Such a rocket engine has already been ground-tested for a longer time than required for a round trip to Mars.

"Nuclear devices will provide power in space for a wide range of jobs," Dr. Seaborg notes, "from communications to recycling waste in the space capsule into fresh water for astronauts."

The seismometer heater was fabricated by Mound Laboratory, Miamisburg, Ohio, which is operated for the AEC by Monsanto Research Corporation.

to attend the inauguration of President Nixon.

Gary belongs to several clubs at school and is active in 4-H Club All-Stars, Honor Club and has won 56 ribbons, and 10 medals. He attended the 4-H exchange program for a week in Stillwater, Oklahoma. At the 4-H Round-Up at U.T. he was an alternate district winner in the forestry project.

Gary's father is in Y-12's Dispatching Department.

NO SHOWERS TODAY

The reason they never give the groom a shower . . . he's all washed up anyway!



CONGRATULATIONS TO ASSEMBLYMEN in the Assembly Division who have completed the 12-week training course. In the top photograph, from left, are A. L. Evans, M. N. Wilkerson Jr., R. L. Smith, L. A. Meade, R. R. Suttles, R. C. Burress, W. L. Rooks and R. E. Myers. In the lower photo are T. J. Todd, C. B. Orr, K. L. Hall, G. W. Poole, R. L. McCulley and R. E. Myers. Not present when the photograph was made were T. J. Gent and W. H. Borum.

REASONABLE EXCUSE

A mother, her arms filled with bundles, got on the bus with her five-year-old daughter. The girl paid the two fares with great pride. Then she felt an explanation to the driver was necessary. In a clear, strong voice she explained, "I'm paying the fare today because my mother is loaded."

Safety's always in season.

Huddleston Sons Serve Air Force

The Charles L. Huddleston family is a U.S. Air Force family all the way! Both sons are active in the air force . . . the oldest one a staff sergeant due to end two enlistments August 15. On discharge he will enroll at the University of Tennessee. That's Hugh L., a staff sergeant at Plattsburgh AFB, New York.

Hugh took basic eight years ago at Lackland AFB, Texas, and has been stationed all over. He has completed a year's tour in Vietnam, and has been in upstate New York for the past two and one-half years. He graduated from Karns High School in 1960.

Young Robert Huddleston has been in the Air Force only 14 months. He also took his basic in Texas and is presently stationed in New Mexico. He took special training at Denver, Colorado.

Robert graduated from Karns High School the third of June, 1968 . . . and took the oath of office in the Air Force on the 17th. His proud father witnessed both events.

Huddleston, in Buildings, Grounds and Maintenance Shops, lives at Andes Road, Route 18, Knoxville. They have two daughters . . . both married.



SSgt. Hugh L. Huddleston



A-1/C Robert A. Huddleston



CERTIFICATES ARE ISSUED to men who completed the True Positioning course in Inspection by Tommy Douglass, left. From his left are G. F. Cozart, P. R. Hitson, A. D. Shulte and O. M. Freels. Seated from left are H. E. Wright, A. J. Naleppa, J. D. Brown, H. F. Kidd, O. R. Chambers and L. T. Murphy.

Contact Lens Should Not Be Worn Sometimes

Contact lens should not be worn in dusty areas, in chemical laboratories, or on other jobs where exposure to chemicals or chemical fumes is likely, warns the Y-12 Safety Department. Employees have been known to have a parti-

cle of metal or chemical substance trapped under a contact lens with disastrous results. Irrigation in such cases is fruitless unless the contact lens is first removed.

HELPFUL WORRY

Worry will make almost anyone thin — except those who worry about being fat!

Melton Green Lead Still Babb-Baker

Babb-Baker made sure nobody was taking the Melton Hill Golf League lead away from them last week by overcoming Ferguson-Winstead six points. Also taking big ones were Pagano-Tuck over the Sewells, Tiller-Clabough over Carter-Butler, Sherrod-Wyrick past Nixdorf-Holdaway . . . and Ellis-Ridings by Roberts-Cook (by forfeit).

Posting five were Riggs-McElroy by Morehead-Poly, Parrott-Parker past Dunaway-Wright, Stinnett-Ladd by Wright-Butler and Phillips-Alvey over Gresham-Bell.

League standings follow:

| Team | W | L |
|-------------------|----|----|
| Babb-Baker | 59 | 19 |
| Riggs-McElroy | 54 | 24 |
| Pagano-Tuck | 53 | 25 |
| Wright-Butler | 51 | 27 |
| Tiller-Clabough | 51 | 27 |
| Parrott-Parker | 47 | 31 |
| Stinnett-Ladd | 46 | 32 |
| Phillips-Alvey | 41 | 37 |
| Sherrod-Wyrick | 41 | 37 |
| Sewell-Sewell | 36 | 42 |
| Gresham-Bell | 35 | 43 |
| Dunaway-Wright | 34 | 44 |
| Ferguson-Winstead | 33 | 45 |
| Ellis-Ridings | 32 | 46 |
| Nixdorf-Holdaway | 28 | 50 |
| Carter-Butler | 25 | 53 |
| Morehead-Poly | 25 | 53 |
| Roberts-Cook | 11 | 67 |

Y-12er's Son Is Honored In Guard



Lt. David G. Noe

Special honors came recently to Lt. David G. Noe, son of Mrs. Ruth Gallardo, ORNL Chemical Services. He received the "Best Motor Pool" plaque for the AFT (Active Field Training) 69 Georgia National Guard E.O.H. Troops.

Lt. Noe is motor officer for the 138th Medical Company, clearing, from Atlanta, Georgia.

He graduated from Georgia Military Academy in July, 1967.

Noe is married to Patricia Ballew Noe . . . daughter of the late H. J. Ballew. They live in Riverdale, Georgia and have three children.

Noe was with C Battery in the Oak Ridge Guard Unit while here. He attended all 12 years of school in Oak Ridge.

Cowen-O'Neal New Whittle Tee-Tops

Cowen-O'Neal swept past Norris-Smeltzer to assume the lead in the Whittle Springs Golf League last week.

True-Poe passed Wilson-Norris for four points.

Allen True put down a 39 scratch score . . . Jim Wilson, a 33 handicap tally. Jack Cowen and True parred five of the Knoxville course's holes.

League standings follow:

| Team | W | L |
|-------------------|----|----|
| Cowen-O'Neal | 22 | 8 |
| Ball-Leach | 20 | 4 |
| Norris-Smeltzer | 14 | 16 |
| True-Poe | 14 | 22 |
| Hensley-Tharp | 11 | 13 |
| Troutman-Chitwood | 11 | 19 |
| Wilson-Norris | 10 | 20 |

Recreation



Saturday, August 23

GOLF TOURNAMENT: 7 a.m. Whittle Springs Golf Course, Knoxville.

Monday, August 25

SOFTBALL LEAGUE: 6:15, 7:30, 8:45 p.m. Pinewood Park. NC Squad vs. Braves; Eagles vs. Buccaneers; 69ers vs. Beta 2 Miners.

VOLLEYBALL: 7 p.m. Informal play. New Jefferson Junior High School.

Tuesday, August 26

SOFTBALL LEAGUE: 6:15, 7:30, 8:45 p.m. Pinewood Park. Play-Off games as needed.

Wednesday, August 27

VOLLEYBALL: 7 p.m. Informal play. New Jefferson Junior High School.

MELTON HILL GOLF LEAGUE: After work, Melton Hill Golf Course, Clinton.

Thursday, August 28

SOFTBALL LEAGUE: 6:15, 7:30, 8:45 p.m. Pinewood Park. Bat Boys vs. All Stars; Show Ups vs. Go Go Gophers; Y-12 Snakes vs. Big Shops (FINAL GAMES OF SEASON!)

HORSESHOE LEAGUE: 7 p.m. City Courts, Jackson Square.

COMING SOON

Mixed Bowling League: Wednesday, September 3.

Classic Bowling League, Thursday, September 4.

C Bowling League, Monday, September 8.

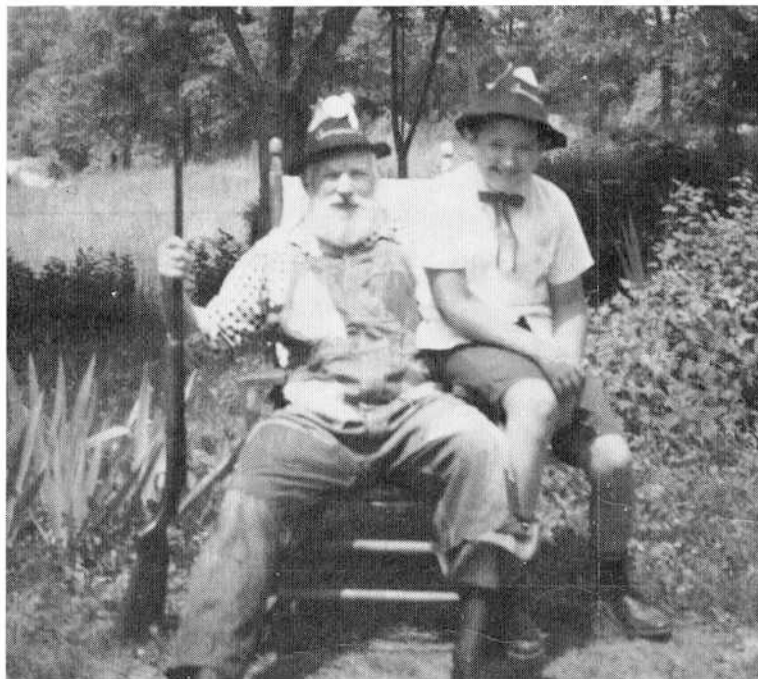
Reed-Stephens Grab Horseshoe Top Spot

Y-12ers Reed and Stephens grabbed a lead in the Horseshoe Pitching League by taking a full-count win over Gray-Copeland. Case-Allmond took eight points from Helms-Fowler.

Wyatt-Wagner posted a five-point win over Nichols-Norris.

League standings follow:

| Team | W | L |
|----------------|----|----|
| Reed-Stephens | 9 | 0 |
| Case-Allmond | 13 | 5 |
| Nichols-Norris | 13 | 5 |
| Wyatt-Wagner | 9 | 9 |
| Durham-Harness | 5 | 4 |
| Helms-Fowler | 5 | 13 |
| Gray-Copeland | 0 | 9 |
| Bailey-Luckett | 0 | 9 |



NO, IT ISN'T HEIDI and her grand-pop . . . it's C. A. Franklin, Weld Shop; and his son Jim. They are photographed in costume for the Rockwood Centennial which was celebrated last June, when a lot of Y-12ers got active in the festivities. Franklin states that many of his friends wanted to see him with the beard, and since he has shaved it off, it is easier to have the picture run than it is to grow another one. It took him 23 weeks to grow the above mop . . . and besides his wife objects!



THE ALL STARS ARE ALL SMILES for picture-taking at the Softball League's Pinewood Park. They are, from left on the first row, Ben Adkins, Dale Legg, Dick Graham, and I. W. Jeter. In the back are Tom Peters, Lewis Alley, Bob Belt and R. D. Dobbs. Ken Self, manager, and Colon McCarty, assistant manager, weren't around when the camera was passed out.

Deer Season Given, Opening November 22

The Game and Fish Commission has divided Tennessee into three groups, in assigning deer season this year. We are in Group A, or everything from the North Carolina line over to Highway 27, which enters Tennessee in Scott County and progresses through Morgan, Roane, Rhea and Hamilton counties. Our season will be for 10 days consecutively beginning November 22 through December 1.

All big game hunts on wildlife management areas will cost \$5 per hunt.

BE PREPARED

Ancient Roman emperors used to have asbestos material woven into burial robes.

Snakes Cut Colts Down To Size Practically Nailing Down 2nd Place

Two forfeits began the Softball League play last week as the Bat Boys took an automatic win from the Beta 4 Astros. The Yankees dittoed by the A-Wingers.

Tuesday saw the Braves beat the K-25 Gashouse Gang easily 21 to 8. Jim Milligan touched four bases on one hit for the winners . . . Wayne Langenburg for the losers.

The Eagles put the 69ers down 12 to 2 in Tuesday's other game. Don Ferree and Trig Myhre poled homers.

The Show-Ups showed . . . the J-Birds didn't . . . so that gives the SU's a win, naturally!

The Buccaneers belted the Go Go Gophers 12 to 5 in Thursday's eye-opener. Jim Turner turned four bases for a homer for the losing Gophers.

The second game of Thursday was the big game of the week, as the Snakes took charge of action to put the K-25 Colts down 6 to 3, giving them the undisputed title for second place.

Phil Mason was the big hero with a homer for the Snakes . . . while Wes Peters clouted one for the losing squad.

The NC Squad finished action Thursday by trouncing the Beta 2 Miners 23 to 11 . . . with Ron Marcum, Jim Snyder and Lee Wickham all gaining homers.

Goss-Stanton Put SW Point On Ice

The Goss-Stanton twosome stretched their lead in the Southwest Point Golf League last week with a four-pointer over Jones-Morgan.

The biggest win of the week went to Smith-Henderson over Argo-Groppe. Mee-Wright also scored four past Bolt-Bush.

Bill Mee scored a 37 for low of the week on the Watts Bar greens.

League standings follow:

| Team | W | L |
|-----------------|----|----|
| Goss-Stanton | 56 | 22 |
| Smith-Henderson | 46 | 31 |
| Jones-Morgan | 45 | 33 |
| Bolt-Bush | 35 | 44 |
| Mee-Wright | 34 | 44 |
| Argo-Groppe | 18 | 60 |

Neal Noland nailed a four-bagger down for the losers.

League standings follow:

| Team | W | L |
|--------------------|----|----|
| Braves | 15 | 0 |
| Snakes | 14 | 1 |
| Eagles | 13 | 2 |
| Colts | 12 | 4 |
| All tSars | 10 | 4 |
| K-25 Gashouse Gang | 9 | 6 |
| 69ers | 9 | 6 |
| J-Birds, K-25 | 8 | 7 |
| Buccaneers | 8 | 7 |
| NC Squad | 8 | 7 |
| Yankees | 7 | 8 |
| Big Shops | 5 | 9 |
| Show Ups | 5 | 10 |
| Go Go Gophers | 4 | 11 |
| Bat Boys | 4 | 11 |
| A Wingers | 3 | 13 |
| Beta 2 Miners | 1 | 13 |
| Beta 4 Astros | 0 | 16 |

G&F Makes Changes In Squirrel Season

An important change is noted in the squirrel season this year. According to the Game and Fish Commission, due to the decreased population of these animals from a lack of food last year, both the season and limit have been reduced. The squirrel season opens Saturday, August 30 and will continue through November 15. The daily bag limit will be four, with a possession limit of eight.

R. Greene Spoke To Local Optimists

R. F. Greene, Design Engineering, one of the members of the engineering team that designed the Apollo moonbox, spoke to a combined meeting of the Clinton and Claxton Optimist Clubs, August 11, in Clinton.

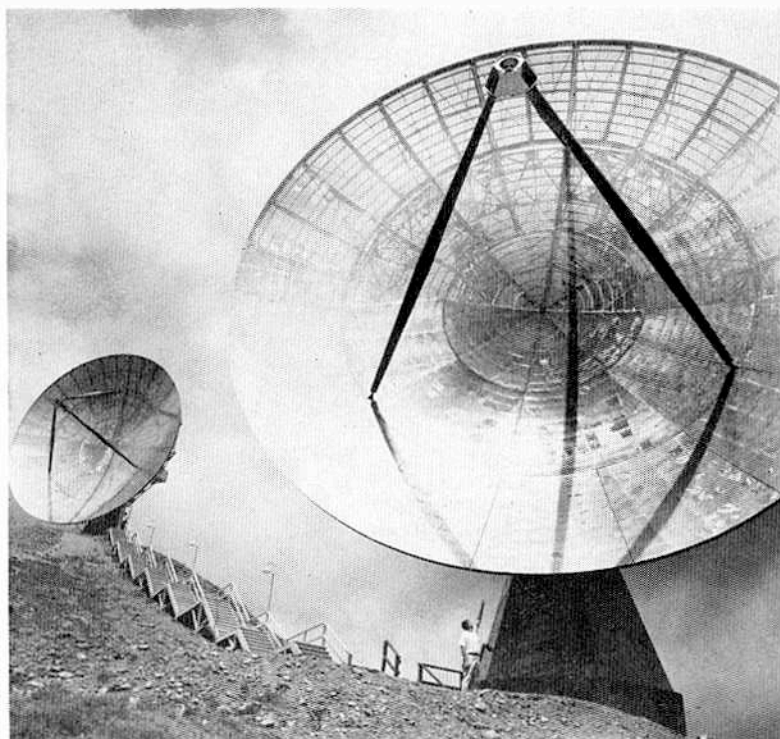
Greene's topic was "Y-12's Contribution to the Apollo Program."

BOWLING BEGINS

Bowlers beware . . . the 1969 season is about ready to open. The Classic League rolls its first balls Thursday, September 4 . . . while the Mixed League kicks off Wednesday, September 3.

The C League is the last one "in" kicking-off Monday, September 8.

The C and Classic bowl at 5:45 p.m. . . the Mixed at 8 p.m. . . all at Ark Lanes.



RADIO ASTRONOMY ANTENNAE or "dishes" located about 13 miles north of Boulder, Colorado, part of the new satellite technology which will be reported on 'The 21st Century' episode 'Eye in the Sky' in color on the CBS Television Network Sunday, August 24, at 6 p.m., EDT, carried here by WBIR-TV, Channel 10. Walter Cronkite is principal reporter for the series which is sponsored in the public interest by Union Carbide Corporation.

'Eye In The Sky' Episode On TV Sunday For Carbide's 21st Century

"Eye in the Sky," a report on satellite technology, will be shown on "The 21st Century" Sunday, August 24 at 6 p.m. EDT, in color on the CBS Television Network. The program is carried in this area by WBIR-TV, Channel 10. Walter Cronkite is principal reporter for the series which is sponsored in the public interest by Union Carbide Corporation.

"Satellites not only allow us to look at the earth with a closer eye," says Cronkite, "They are causing a communications revolution."

Cronkite also notes, "From eyes in the sky, may come the knowledge needed to relieve hunger in the world."

In addition to various types of communications satellites that link the world with video communications, other applications of satellite technology which will be

shown include special airborne mounted magnetometers that can detect iron, nickel and asbestos and other instrument eyes which can detect radioactive elements such as Uranium and Potassium.

A special camera developed by the National Aeronautics and Space Administration with the potential capability of inventorying the agricultural, biological and mineral resources of the earth will also be shown.

"Eye in the Sky," was written by Fred Warshofsky, science editor for "The 21st Century," Isaac Kleinerman is producer, Burton Benjamin is executive producer.

"Eye in the Sky" Sunday at 6 p.m., EDT, over WBIR-TV, Channel 10.

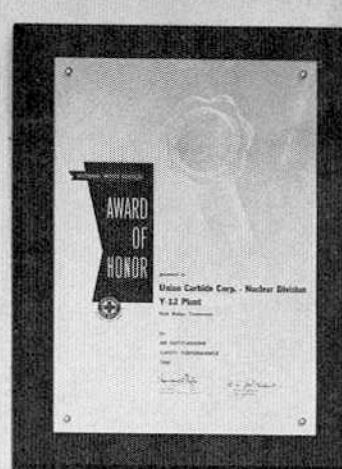
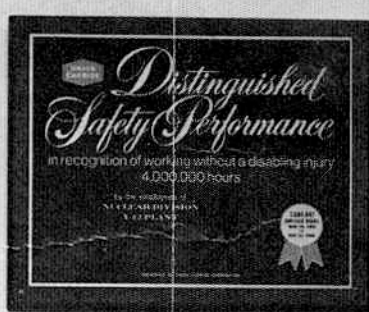
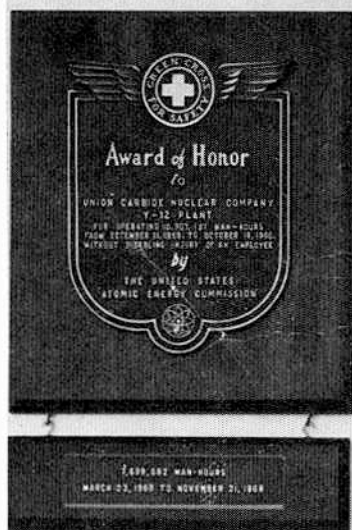
What The Awards Were Won For!

The Awards of Honor here and Award for Distinguished Safety Performance are the highest awards given for outstanding safety achievement by the Atomic Energy Commission, National Safety Council, and Union Carbide Corporation.

The AEC Award of Honor is for the prevention of disabling injuries, with outstandingly effective results for a continuous period of not less than 30 days with an accumulation of man-hours not less than the minimum required of organization in a respective

The National Safety Council's Award of Honor is presented for a perfect record of 3,000,000 or more man-hours without a disabling injury, or the award is given automatically if the record covers an entire calendar year.

Union Carbide Corporation's Award for Distinguished Safety Performance—this award can be obtained for a record of 4,000,000 or more employee hours worked without a disabling injury, or a full calendar year. Only nine of these have been given by UCC... six of which were awarded to Oak Ridge installations!



A CLOSE UP OF SAFETY AWARDS to Y-12ers for their safety performance for 1968 is seen above. The awards are, at left, the Atomic Energy Commission's Award of Honor... Union Carbide's Distinguished Safety Performance award, center; and the National Safety Council's Award of Honor.



Summer picks up its pace as the days grow shorter toward autumn. Congratulations to the following Y-12ers who mark important days with Union Carbide Corporation.

25 YEARS

Solomon T. Burress, Buildings, Grounds and Maintenance Shops, August 21.

Edward K. DeLong, Research Services, August 21.

Willie Gibson, Building Services Department, August 22.

Theodore P. Sprague, Chemistry Development, August 22.

George B. Lockhart, Product Engineering, August 24.

James B. Mangrum, H-1 Foundry, August 24.

Willie J. Wiggins, Utilities Administration, August 24.

Lee R. Bailey, Utilities Administration, August 25.

Burwell B. Bell Jr., Engineering Division, August 25.

Leo A. Thometz, General Machine Shop, August 26.

Taylor L. McCreary, Research Services, August 26.

10 YEARS

Howard A. Price, Dispatching Department, August 22.

15 YEARS

Edmund D. Bores, Area Five Maintenance, August 20.

Edward C. Hightower, Process Analysis, August 23.

Jack D. Stalsworth, Machine Maintenance, August 23.

Arver G. Steele Jr., General Machine Shop, August 23.

Olin T. McDaniel Jr., General Machine Shop, August 23.

Jasper B. Fincher Jr., 9766 Machine Shop, August 23.

Charles W. Catlett, Production Assay, August 23.

Charles H. Curtis, Tool Engineering, August 24.

GENERATION GAP

As soon as you leave your teens, your fads begin looking just as silly as your parents said they did.

Safety is costless — Until it's forgotten.



UNION CARBIDE CORPORATION

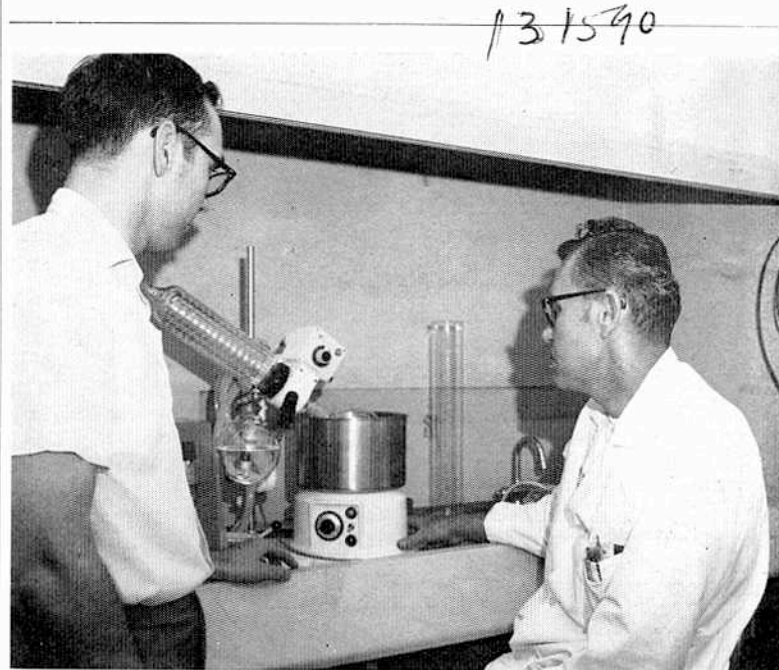
NUCLEAR DIVISION

P. O. BOX Y, OAK RIDGE, TENNESSEE 37830

RETURN REQUESTED

(Do Not Forward—Return Postage Guaranteed)

BULK RATE
U.S. Postage
PAID
Oak Ridge, Tenn.
Permit No. 71



N. J. WILLIAMS, left, and **R. E. Thornton**, plant laboratory, begin an analysis of a quantity of moonbox residue by reducing it to a more concentrated form. This is followed by infrared spectroscopy and gas chromatography analytical techniques.



Rider wanted from Clinton to East, North or Central Portal, straight day. M. L. Petty, plant phone 3-7650, home phone Clinton 457-0493.

Ride wanted from South Knoxville to North Portal, straight day. G. T. Grab, plant phone 3-5415, home phone Knoxville 577-2698.

Improper Material Handling Cited

Records compiled by the National Safety Council show that nearly one-fourth of all serious occupational injuries result from the manual handling of materials.

The Council — which has been involved with the prevention of industrial accidents for more than 50 years — lists the following unsafe work practices that have led to manual handling injuries:

- Placing fingers or hands at pinch points while moving objects.
- Gripping objects improperly, allowing them to fall or slip.
- Carrying too heavy a load.
- Failing to wear safety shoes.
- Lifting in an awkward position, or lifting with the back instead of using the leg muscles.
- Failure to use cranes, hoists and elevators provided for the job.
- Failing to wear proper protective gloves or to use hand guards for sharp-edged items.
- Loosening coils or cutting taut binding wire, metal straps, or cable without wearing face protection.
- Working in cluttered, cramped quarters.

Air Separation Plant Set Near Winnipeg

Union Carbide Canada is planning a huge air separation plant near Winnipeg. To cost approximately \$2 million, the plant is expected to be the largest liquid nitrogen, oxygen, and argon plant in Canada west of Ontario. The facility is scheduled to be in operation by the end of next year. It will be in the municipality of St. Andrews, 18 miles north of Winnipeg and adjacent to Manitoba Rolling Mills, one of the larger customers to be supplied from the plant. It will have a capacity of 55 tons per days of liquid nitrogen, oxygen and argon.